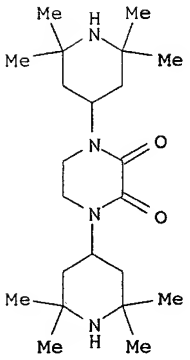


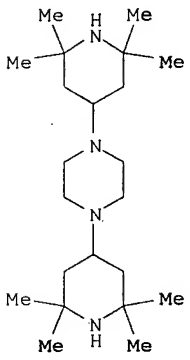
L25 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1981:157850 HCAPLUS
DN 94:157850
TI Piperidine derivatives, and polymer compositions containing them
IN Cantatore, Giuseppe; Cassandrini, Paolo
PA Chimosa Chimica Organica S.p.A., Italy
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP-----19578	A1	19801126	1980EP-0810117	19800403 <--
	EP-----19578	B1	19830330		
	R: DE, FR, GB, IT				
	US---4316025	A	19820216	1980US-0139274	19800410 <--
	JP--55147259	A	19801117	1980JP-0049099	19800414 <--
	JP--01022265	B	19890425		
PRAI	1979IT-0021841	A	19790413 <--		

AB N,N'-Di-4-piperidyl derivs. of diazacycloalkanes are stabilizers for polymers, especially polyolefins. Thus, refluxing N, N'-bis(2,2,6,6-tetramethyl-4-piperidyl)ethylenediamine [61260-54-6] 338, BrCH2CH2Br [106-93-4] 206.6, and K2CO3 276.4 g in 2 L PhMe 30 h gives N,N'-bis(2,2,6,6-tetramethyl-4-piperidyl)piperazine (I) [**76802-05-6**]. Polypropylene [9003-07-0] containing I 0.2, BHT 0.1, and Ca stearate 0.1% lost 50% tensile strength in 21,080 h accelerated weathering, compared with 300 h with 2-hydroxy-4-actoxybenzophenone instead of I.

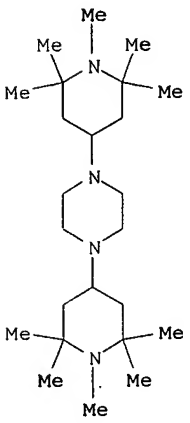
IT **76802-05-6 76802-06-7 76802-07-8**
76802-09-0 76802-10-3 76802-19-2
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(stabilizers, for polymers)

RN 76802-05-6 HCAPLUS
CN Piperazine, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

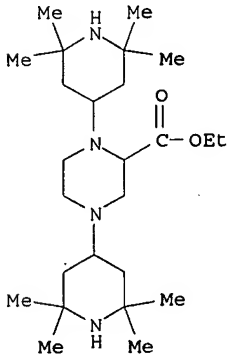


RN 76802-06-7 HCAPLUS

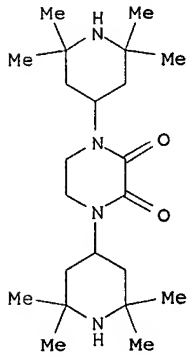
CN Piperazine, 1,4-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



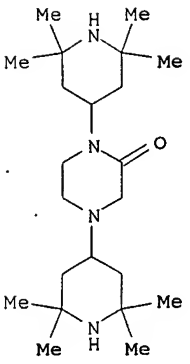
RN 76802-07-8 HCAPLUS
CN 2-Piperazinecarboxylic acid, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)-, ethyl ester (9CI) (CA INDEX NAME)



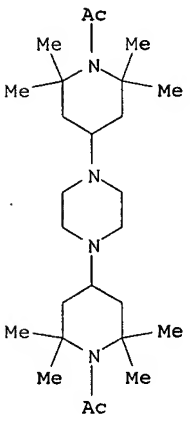
RN 76802-09-0 HCAPLUS
CN 2,3-Piperazinedione, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 76802-10-3 HCAPLUS
CN Piperazinone, 1,4-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 76802-19-2 HCAPLUS
CN Piperidine, 4,4'-(1,4-piperazinediyl)bis[1-acetyl-2,2,6,6-tetramethyl- (9CI) (CA INDEX NAME)



L25 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2007 ACS on STN
AN 1962:31334 HCAPLUS
DN 56:31334
OREF 56:5920d-g
TI Electronic interactions of isomeric phenylazopyridines and related N-oxides
AU Pentimalli, Luciano
CS Univ. Bologna, Italy
SO Gazzetta Chimica Italiana (1960), 90, 1203-12
CODEN: GCITA9; ISSN: 0016-5603
DT Journal
LA Unavailable
AB cf. CA 54, 21087a. 2-Phenylazopyridine (I), long orange red needles, m. 31°, 3-PhN:NC5H4N (II), orange scales, m. 50-1°, and 4-PhN:NC5H4N (III), orange pink lamellas, m. 98-9°, were prepared according to Campbell, et al. (CA 48, 3975i). The preparation of the N-oxides of I, II, and III was described earlier (CA 52, 4641i; 54, 21087a). A study of the ultra-violet spectra of these compds. dissolved in EtOH, and in HCl of several normalities (N, 0.1N, 0.01N) showed much similarity between I, II, III, and azobenzene, maximum in the ranges 224-9, 312-20, and 440-50 mμ (EtOH); in acid medium, the latter bands shift to 347 and 442 mμ for I, 324 and 440 mμ for II, and 334 and 456 mμ for III. Bands (mμ in EtOH) for the N-oxides (with intensity log ε stated) were: N-oxide of I: 237 (4.11), 273 (4.10), 331 (4.24), and 460; of II, 236 (3.98), 280 (4.14), 318 (4.19), 432 (2.67); of III, 236 (4.02), 356 (4.38), -, 450. In neutral medium, the azo group is electron-attracting and thus acts as a poor conjugation conductor in electronic interactions of Ph or pyridyl with the azo group. In an acid medium, the N-heterocyclic or N-O group is protonized and may cause inversion of the normal direction of the conjugation. Eight spectra are